Author index to volume 98

Ahmed, M.A., M.K. El Nimr, A. Tawfik and A.M. El Hasab, Dielectric behaviour in Ni–Al ferrites at low frequencies 98 (1991) 33
Antipov, S.D., see A.V. Tsvyashchenko 98 (1991) 285
Aviram, I., L.H. Bennett, L.J. Swartzendruber and I.I. Satija, Complex dynamics in the Barkhausen effect 98 (1991) 92
Aylesworth, K.D., D.J. Sellmyer and G.C. Hadjipanayis, The structural and magnetic properties of films of $Pr_2Fe_{14}B$ and $Nd_2Fe_{14}B$ cosputtered with Ta 98 (1991) 65

Baran, A., see M. Zelený 98 (1991) 25
Barnaś, J. and P. Grünberg, On the static magnetization of double ferromagnetic layers with antiferromagnetic inter-layer coupling in an external magnetic field 98 (1991) 57
Bennett, L.H., see I. Aviram 98 (1991) 92
Berger, R., see L. Häggström 98 (1991) 37
Bowen, L.H., see S.C. Dorman 98 (1991) 28
Buschow, K.H.J., see P.C.M. Gubbens 98 (1991) 141
Buschow, K.H.J., see R.A. Robinson 98 (1991) 147
Buschow, K.H.J., see J.P. Liu 98 (1991) 291

Calage, Y., M.C. Moron, J.L. Fourquet and F. Palacio, Mössbauer study of the α and β forms of $(NH_4)_2FeF_5$ 98 (1991) 79
Chang, Y.H., see S.W. Yung 98 (1991) 341
Chen, J.C., see T. Kaneyoshi 98 (1991) 201
Chuang, Y.C., see Z.-g. Zhao 98 (1991) L231
Coey, J.M.D., H. Sun, Y. Otani and D.P.F. Hurley, Gas-phase carbonation of R_2Fe_{17}; R = Y, Sm 98 (1991) 76

Da Costa Jr., M.I., see J.C.P. De Oliveira 98 (1991) 239
De Boer, F.R., see R.A. Robinson 98 (1991) 147
De Boer, F.R., see J.P. Liu 98 (1991) 291
De Oliveira, J.C.P., M.I. Da Costa Jr., W.H. Schreiner and A. Vasquez, Magnetic properties of some iron-poor natural olivines 98 (1991) 239
Diviš, M., see P.C.M. Gubbens 98 (1991) 141
Dorman, S.C., L.H. Bowen and S.B. Weed, Magnetic separation of synthetic goethites based on Al substitution: ^{57}Fe Mössbauer analysis 98 (1991) 28

Ehmann, A., see Th. Sinnemann 98 (1991) 99
El Hasab, A.M., see M.A. Ahmed 98 (1991) 33
El Nimr, M.K., see M.A. Ahmed 98 (1991) 33

Fabová, T., see P. Sovák 98 (1991) 205
Farzetdinova, R.M., see V.L. Safonov 98 (1991) L235
Fomicheva, L.N., see A.V. Tsvyashchenko 98 (1991) 285
Fourquet, J.L., see Y. Calage 98 (1991) 79
Fraizzoli, S., see P. Monachesi 98 (1991) 130
Fries, T., see Th. Sinnemann 98 (1991) 99

Gamari-Seale, E., see C. Routsi 98 (1991) 257
Gamčík, F., see P. Sovák 98 (1991) 205
Ge, Y.-p., see Z.-g. Zhao 98 (1991) L231
Gignoux, D., D. Schmitt, A. Takeuchi, F.Y. Zhang, C. Rouchon and E. Roudat, Magnetic properties and structures of the hexagonal HoAlGa compound 98 (1991) 333
Grünberg, P., see J. Barnaś 98 (1991) 57
Gubbens, P.C.M., K.H.J. Buschow, M. Diviš, J. Lange and M. Loewenhaupt, Influence of the magnetic anisotropy on the relaxation behaviour in $DyCu_2$ and $ErCu_2$ 98 (1991) 141

Hadjipanayis, G.C., see K.D. Aylesworth 98 (1991) 65
Häggström, L., A. Seidel and R. Berger, A Mössbauer study of antiferromagnetic ordering in iron deficient $TlFe_{2-x}Se_2$ 98 (1991) 37
Hung, M.P., see S.W. Yung 98 (1991) 341
Hurley, D.P.F., see J.M.D. Coey 98 (1991) 76

Inoue, M., K. Sadahiro and H. Negishi, Transport studies on relaxation behavior in spin-glass phase of itinerant magnetic intercalate Fe_xTiS_2 98 (1991) 60
Ishii, Y., T. Okamoto and H. Nishina, Particle length and orientation distributions in magnetic recording media 98 (1991) 210
Ishio, S., see T. Miyazaki 98 (1991) L7

Jarlborg, T., see J. Sjöström 98 (1991) 85

Kaneyoshi, T. and J.C. Chen, Mean-field analysis of a ferrimagnetic mixed spin system 98 (1991) 201
Kaneyoshi, T., Surface magnetic properties of an amorphous semi-infinite ferromagnet 98 (1991) 185

Karnaukhov, I.N., Solution of the two-dimensional Kondo problem for the Landau-leveled electrons 98 (1991) 250
Kauzlarich, S.M., see D.J. Webb 98 (1991) 71
Kemmler-Sack, S., see Th. Sinnemann 98 (1991) 99
Kettunen, P., see P. Ruuskanen 98 (1991) 349
Kitada, M. and N. Shimizu, Interdiffusion of Nb/Permalloy bilayer thin films and its applications to magnetoresistive heads 98 (1991) 215
Knab, D. and C. Koenig, Importance of the exact atomic positions on the magnetic properties of Fe_x/Ru_x superlattices 98 (1991) 10
Koenig, C., see D. Knab 98 (1991) 10
Kollár, P., see P. Sovák 98 (1991) 205
Konč, M., see P. Sovák 98 (1991) 205
Kouvel, J.S., see K.A. Ziq 98 (1991) 245
Krauss, U. and U. Krey, Local magneto-volume effect in amorphous iron (*Letter to the Editor*) 98 (1991) L1
Krey, U., see U. Krauss 98 (1991) L1
Krishnan, R., H. Lassri and J. Teillet, High field magnetic and Mössbauer studies in amorphous Fe–Er–B–Si alloys 98 (1991) 155
Kronmüller, H., see R. Reisser 98 (1991) 261
Kronmüller, H., see R. Reisser 98 (1991) 273
Kuromoto, T.Y., see D.J. Webb 98 (1991) 71

Lai, W.y., see Z.q. Li 98 (1991) 47
Lange, J., see P.C.M. Gubbens 98 (1991) 141
Lassri, H., see R. Krishnan 98 (1991) 155
Lawson, A.C., see R.A. Robinson 98 (1991) 147
Li, Z.q., H.l. Luo, W.y. Lai, Z. Zeng and Q.q. Zheng, Cluster studies on the electronic and magnetic properties of MnBi and MnBiAl 98 (1991) 47
Liu, J.P., F.R. De Boer and K.H.J. Buschow, Magnetic coupling in the rare-earth compounds RFe_2 and RFe_3 98 (1991) 291
Loewenhaupt, M., see P.C.M. Gubbens 98 (1991) 141
Luo, H.l., see Z.q. Li 98 (1991) 47

Miyazaki, T., T. Yaoi and S. Ishio, Large magnetoresistance effect in 82Ni–Fe/Al–Al_2O_3/Co magnetic tunneling junction (*Letter to the Editor*) 98 (1991) L7
Monachesi, P., S. Fraizzoli, E.G. Moroni, Electronic structure calculations for CeAg 98 (1991) 130
Moroni, E.G., see P. Monachesi 98 (1991) 130
Moron, M.C., see Y. Calage 98 (1991) 79

Negishi, H., see M. Inoue 98 (1991) 60
Nishihara, Y., see A. Pösinger 98 (1991) 19
Nishina, H., see Y. Ishii 98 (1991) 210

Okamoto, T., see Y. Ishii 98 (1991) 210
Otani, Y., see J.M.D. Coey 98 (1991) 76
Oudet, X., Paramagnetism: An alternative view. I: The theoretical approach 98 (1991) 298
Oudet, X., Paramagnetism: An alternative view. II: The Curie constant 98 (1991) 307

Palacio, F., see Y. Calage 98 (1991) 79
Pinto, M.A., Vectorial aspects of ferromagnetic hysteresis 98 (1991) 221
Pösinger, A., W. Steiner and Y. Nishihara, High field Mössbauer investigations of the magnetic phase transition in $Sc_{0.25}Ti_{0.75}Fe_2$ at 4.2 K 98 (1991) 19

Radwan, A.E., Capillary instability of a rotating viscous hollow jet 98 (1991) 162
Radwan, A.E., Electrical stability of a cylindrical fluid interface utilizing the energy principle 98 (1991) 173
Reisser, R. and H. Kronmüller, Investigations of the magnetic properties of quasicrystalline AlGeMn. I. General magnetic properties 98 (1991) 261
Reisser, R. and H. Kronmüller, Investigations of the magnetic properties of quasicrystalline AlGeMn. II. Critical phenomena 98 (1991) 273
Rekveldt, M.Th., see R. Rosman 98 (1991) 104
Ressler, L., see Th. Sinnemann 98 (1991) 99
Robinson, R.A., A.C. Lawson, K.H.J. Buschow, F.R. de Boer, V. Sechovsky and R.B. Von Dreele, Low temperature magnetic structures of UPdSn 98 (1991) 147
Rosenberg, M., see Th. Sinnemann 98 (1991) 99
Rosman, R. and M.Th. Rekveldt, Ni containing solid Kr bubbles studied with neutron depolarization and small-angle neutron scattering 98 (1991) 104
Rotter, M., see M. Zelený 98 (1991) 25
Rouchon, C., see D. Gignoux 98 (1991) 333
Roudat, E., see D. Gignoux 98 (1991) 333
Routsi, C., J.K. Yakinthos and E. Gamari-Seale, Magnetic characteristics of some RNiSn ternary equiatomic alloys 98 (1991) 257
Ruuskanen, P. and P. Kettunen, Reversible component ΔB_r of the stress-induced change in magnetization as a function of magnetic field strength and stress amplitude 98 (1991) 349

Sadahiro, K., see M. Inoue 98 (1991) 60
Safonov, V.L. and R.M. Farzetdinova, On a possibility of magnon pumping in crystals with two-level defects (*Letter to the Editor*) 98 (1991) L235
Satija, I.I., see I. Aviram 98 (1991) 92
Schmitt, D., see D. Gignoux 98 (1991) 333
Schreiner, W.H., see J.C.P. De Oliveira 98 (1991) 239

Sechovsky, V., see R.A. Robinson 98 (1991) 147
Seidel, A., see L. Häggström 98 (1991) 37
Sellmyer, D.J., see K.D. Aylesworth 98 (1991) 65
Shimizu, N., see M. Kitada 98 (1991) 215
Sinnemann, Th., L. Ressler, M. Rosenberg, T. Fries, A. Ehmann and S. Kemmler-Sack, Mössbauer spectroscopy study of $(Bi,Pb)_2Sr_2Bi_{n-1}Fe_nO_{3n+3+z}$ stacking polytypes with $n = 2,3,4$ 98 (1991) 99
Sjöström, J. and T. Jarlborg, Band structures and magnetic properties in the iron phosphide compounds FeMnP, FeCrP and FeVP 98 (1991) 85
Sovák, P., M. Konč, P. Kollár, F. Gamčík and T. Fabová, Influence of Cr concentration on the structure and the magnetic properties of $Co_{1-x}Cr_x$ thin films 98 (1991) 205
Steiner, W., see A. Pösinger 98 (1991) 19
Sun, H., see J.M.D. Coey 98 (1991) 76
Sun, X.K., see Z.-g. Zhao 98 (1991) L231
Suski, W., see M. Zelený 98 (1991) 25
Swartzendruber, L.J., see I. Aviram 98 (1991) 92

Takeuchi, A., see D. Gignoux 98 (1991) 333
Tawfik, A., see M.A. Ahmed 98 (1991) 33
Teillet, J., see R. Krishnan 98 (1991) 155
Tsvyashchenko, A.V., L.N. Fomicheva and S.D. Antipov, Magnetic behavior of nickel in $Y(Fe_{1-x}Ni_x)_2$ alloys synthesized under high pressure 98 (1991) 285
Turek, I., Electronic structure and hyperfine parameters distribution in amorphous $Fe_{80}B_{20}$ cluster 98 (1991) 119

Vasquez, A., see J.C.P. De Oliveira 98 (1991) 239
Von Dreele, R.B., see R.A. Robinson 98 (1991) 147

Wang, J.-y., see Z.-g. Zhao 98 (1991) L231
Webb, D.J., T.Y. Kuromoto and S.M. Kauzlarich, New ternary magnets $(Ca, Sr, Ba)_{14}MnBi_{11}$ 98 (1991) 71
Weed, S.B., see S.C. Dorman 98 (1991) 28
Wong, T.H., see S.W. Yung 98 (1991) 341

Yakinthos, J.K., see C. Routsi 98 (1991) 257
Yaoi, T., see T. Miyazaki 98 (1991) L7
Yung, S.W., Y.H. Chang, T.H. Wong and M.P. Hung, Magnetic properties of vacuum deposited iron–beryllium films 98 (1991) 341

Zaspel, C.E., Susceptibility of interacting chains of trimers: application to bis(isopropylammonium) tetrachlorocuprate 98 (1991) 53
Zelený, M., M. Rotter, W. Suski, A. Baran and F. Zounová, Magnetic properties of UFe_8Al_4 and $UFe_{10}X_2$ (X = Mo, Si) 98 (1991) 25
Zeng, Z., see Z.q. Li 98 (1991) 47
Zhang, F.Y., see D. Gignoux 98 (1991) 333
Zhao, Z.-g., J.-y. Wang, Y.-p. Ge, X.K. Sun and Y.C. Chuang, Magnetization and magnetocrystalline anisotropy in YCo_4B compound (*Letter to the Editor*) 98 (1991) L231
Zheng, Q.q., see Z.q. Li 98 (1991) 47
Ziq, K.A. and J.S. Kouvel, Rotational behavior and symmetry of the induced anisotropy in a Cu–Mn spin-glass alloy 98 (1991) 245
Zounová, F., see M. Zelený 98 (1991) 25

Subject index to volume 98

Actinides 98 (1991) 25, 147
Amorphous systems
– ferromagnets 98 (1991) 185
– iron 98 (1991) 1
– RE–TM alloys 98 (1991) 155
– TM–metalloid alloys 98 (1991) 119
Anisotropy
– induced 98 (1991) 245
– magnetocrystalline 98 (1991) 231, 349
– particles 98 (1991) 210
– random 98 (1991) 273
– RE compounds 98 (1991) 141
Antiferromagnetism 98 (1991) 37, 57, 99
Arrott plots 98 (1991) 273

Band calculation 98 (1991) 85
Band structure 98 (1991) 85
Barkhausen effect 98 (1991) 92
Bose quasiparticles 98 (1991) 235
Bubbles 98 (1991) 104

Carbonation
– gas-phase 98 (1991) 76
Cluster approach 98 (1991) 47
Coercivity 98 (1991) 65
Correlations 98 (1991) 185
Crystal structure 98 (1991) 205
Curie constant 98 (1991) 307
Curie temperature
– composition-dependent 98 (1991) 285

De Haas–van Alphen effect 98 (1991) 250
Density of states 98 (1991) 85
Dielectric behavior 98 (1991) 33
Domain
– structure 98 (1991) 205
– wall motion 98 (1991) 92

Effective-field theory 98 (1991) 185
Electron diffraction 98 (1991) 261
Electronic structure 98 (1991) 47, 119, 130
Exchange
– interacting chain 98 (1991) 53

Ferrimagntism 98 (1991) 201
Ferrites 98 (1991) 33
Ferromagnetic
– hysteresis 98 (1991) 221
Ferromagnets 98 (1991) 92
– amorphous 98 (1991) 185

Goethite 98 (1991) 28

Hall effect 98 (1991) 205
Hall resistivity 98 (1991) 60
High gradient magnetic separation 98 (1991) 28
High magnetic field 98 (1991) 19
High pressure 98 (1991) 285
Hyperfine fields 98 (1991) 79, 85, 99, 141
Hyperfine parameters 98 (1991) 119
Hysteresis
– ferromagnetic 98 (1991) 221
Hysteresis loop 98 (1991) 25, 205, 261

Impurities in ferromagnets 98 (1991) 92
Impurity effects
– magnetization oscillations 98 (1991) 250
Information storage
– head devices 98 (1991) 215
– magnetic recording media 98 (1991) 221, 341
– particulate recording media 98 (1991) 210
– perpendicular recording media 98 (1991) 205
– thermomagnetic recording 98 (1991) 201
Instability in fluids 98 (1991) 162, 173
Interdiffusion 98 (1991) 215
Invar effect 98 (1991) 285

Kerr rotation 98 (1991) 47
Kondo problem
– two-dimensional 98 (1991) 250
Kouvel–Fisher plots 98 (1991) 273

Lattice constants 98 (1991) 285
Laves phase compounds 98 (1991) 19, 141, 285
Linear muffin-tin orbitals 98 (1991) 10
Low-dimensional systems 98 (1991) 79

Magnetic coupling 98 (1991) 291
Magnetic moments 98 (1991) 291
Magnetic phase diagram 98 (1991) 333
Magnetic separation 98 (1991) 28

Magnetic structures
– low-temperature 98 (1991) 147
Magnetization
– field-dependent 98 (1991) 19, 221, 231, 245, 291, 333
– high-field 98 (1991) 155
– local 98 (1991) 104
– processes 98 (1991) 210
– reversal 98 (1991) 65
– saturation 98 (1991) 341
– static 98 (1991) 57
– stress-induced 98 (1991) 349
– temperature-dependent 98 (1991) 71, 185, 201, 239, 285
Magneto-optics 98 (1991) 47
Magnetoresistance
– intercalation compound 98 (1991) 60
– junction 98 (1991) 7
– thin films 98 (1991) 215
Magnetostriction 98 (1991) 349
Magnetovolume 98 (1991) 285
Magnetovolume effect
– local 98 (1991) 1
Magnon pumping 98 (1991) 235
Mean-field analysis 98 (1991) 201, 291
Microstructure 98 (1991) 341
Mixed spin system 98 (1991) 201
Mössbauer spectroscopy
– Fe compounds 98 (1991) 37
– ^{57}Fe 98 (1991) 28, 99
– Laves phase compounds 98 (1991) 19
– low-dimensional systems 98 (1991) 79
– olivines 98 (1991) 239
– rare-earth compounds 98 (1991) 141
– RE–TM alloys 98 (1991) 155
Multilayers 98 (1991) 7, 57

Neutron depolarization 98 (1991) 104
Neutron diffraction 98 (1991) 147, 333
Neutron scattering
– small angle 98 (1991) 104

Olivines 98 (1991) 239
Ordering
– antiferromagnetic 98 (1991) 37
Organic compounds 98 (1991) 53

Paramagnetic phase 98 (1991) 130, 257
Paramagnetism 98 (1991) 298, 307
Particles
– size 98 (1991) 28
– size distribution 98 (1991) 210
Permalloys 98 (1991) 215
Permanent magnets 98 (1991) 65
Phase transitions
– electronic 98 (1991) 285
– ferri–paramagnetic 98 (1991) 273
– field-induced 98 (1991) 19
– low-temperature 98 (1991) 147
– magnetic 98 (1991) 231
– para–antiferromagnetic 98 (1991) 239
Polarization
– remanent 98 (1991) 261
– spontaneous 98 (1991) 273

Quasicrystals 98 (1991) 261, 273

Rare earth
– compounds 98 (1991) 333
– Curie constants 98 (1991) 307
– intermetallic compounds 98 (1991) 141
Rare earth–transition metal compounds 98 (1991) 76, 257, 291
– amorphous 98 (1991) 155
Relaxation 98 (1991) 60, 141
– dielectric 98 (1991) 33

Specific heat 98 (1991) 298, 333
Spin glass 98 (1991) 60, 245
Stress effects 98 (1991) 349
Structure phenomena 98 (1991) 10
Superlattices 98 (1991) 10
Surface magnetism 98 (1991) 185
Susceptibility
– field-dependent 98 (1991) 250
– high-field 98 (1991) 231
– high-temperature 98 (1991) 53
– initial 98 (1991) 25
– magnetic 98 (1991) 333
– paramagnetic 98 (1991) 239, 298
– temperature-dependent 98 (1991) 71, 147, 257

Ternary magnets 98 (1991) 71
Ternary rare earth compounds 98 (1991) 257
Thin films 98 (1991) 65, 205, 215, 341
Transition metal
– alloys 98 (1991) 119
– intercalation compound 98 (1991) 60
Transmission electron microscopy 98 (1991) 341
– Lorentz 98 (1991) 205
Transport properties 98 (1991) 60
Tunneling junction
– magnetic 98 (1991) 7

Vacancy ordering 98 (1991) 37
Vibrating sample magnetometer 98 (1991) 65
Viscosity 98 (1991) 162

X-ray diffraction 98 (1991) 37, 65, 76, 341